In the Claims

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This listing of claims will replace all prior versions and listings of claims in the application:

- (Original) A method of generating an image having a
 plurality of bands, comprising the steps of:
- 3 receiving a page description representative of elements of the
 4 image;
- building a display list buffer having a plurality of display building a display list elements (DLE) derived from the page description, each display building representative of a corresponding graphic item;
- building a banded display list representative of the plurality
 of bands of the image, wherein for each band of the plurality of
 bands a set of templates is stored in the banded display list in
 which each template points to a DLE in the display list buffer for
 - 2. (Original) The method of Claim 1, further comprising the step of rendering each band by using the set of templates stored for that band to access a corresponding set of DLEs from the display list buffer.

each corresponding graphic item that is spawned within the band.

- 1 3. (Original) The method of Claim 1, wherein each template contains an opcode field that describes the DLE being pointed to.
- 1 4. (Original) The method of Claim 1, wherein each template 2 contains a number of elements field that specifies a number of 3 elements of a vector DLE being pointed to that falls within the 4 band.

1 (Currently Amended) The A method of Claim 1, generating 2 an image having a plurality of bands, comprising the steps of: 3 receiving a page description representative of elements of the image; 4

building a display list buffer having a plurality of display list elements (DLE) derived from the page description, each display list element being representative of a corresponding graphic item; and

building a banded display list representative of the plurality of bands of the image, wherein for each band of the plurality of bands a set of templates is stored in the banded display list in which each template points to a DLE in the display list buffer for each corresponding graphic item that is spawned within the band, wherein each template contains a header offset field that specifies a bounding box in the display list buffer for a vector set of DLEs that are interpreted together.

6. (Currently Amended) The A method of Claim 1, generating an image having a plurality of bands, comprising the steps of: receiving a page description representative of elements of the

image;

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building a display list buffer having a plurality of display list elements (DLE) derived from the page description, each display list element being representative of a corresponding graphic item; and

building a banded display list representative of the plurality 10 of bands of the image, wherein for each band of the plurality of 11 bands a set of templates is stored in the banded display list in which each template points to a DLE in the display list buffer for 13 each corresponding graphic item that is spawned within the band, 14 wherein each template contains a DLE offset field that specifies an

- 15 offset in the display list buffer of the first element of a vector 16 set of DLEs that is being pointed to.
 - 7 (Original) A method of generating an image having a plurality of bands, comprising the steps of:
 - 3 receiving a page description representative of elements of the
 4 image;
 - building a display list buffer having a plurality of display blist elements (DLE) derived from the page description, each display blist element being representative of a corresponding graphic item;
- 8 building a banded display list representative of the plurality
 9 of bands of the image, wherein for each band of the plurality of
- 10 bands a set of templates is stored the banded display list in which 11 each template points to a DLE in the display list buffer for each
- 12 corresponding graphic item that is spawned within the band, wherein
- 12 corresponding graphic item that is spawned within the band, wherein 13 each template comprises opcode field that describes the DLE being
- 14 pointed to, a number of elements field that specifies a number of
- 15 elements of a vector DLE being pointed to that falls within the
- 16 band, a header offset field that specifies a bounding box in the
- display list buffer for a vector set of DLEs that are interpreted
- 18 together, and a DLE offset field that specifies an offset in the
- 19 display list buffer of the first element of a vector set of DLEs
- 20 that is being pointed to; and
- 21 rendering each band by using the set of templates stored for
- 22 that band to access a corresponding set of DLEs from the display
- 23 list buffer.
 - 1 8. (Original) An image processing system that renders a 2 graphical image in a banded manner, the system comprising:
 - 3 a microprocessor contained on a single integrated circuit
 - 4 connected to an on-chip memory within the integrated circuit;

an image buffer memory connected to the microprocessor to creceive rendered bands;

means for displaying the image connected to receive each rendered band for display; and

9 wherein the microprocessor is operable to prepare a page 10 having a plurality of bands for display by performing the steps of:

11 receiving a page description representative of elements of the 12 image;

building a display list buffer having a plurality of display
list elements (DLE) derived from the page description, each display
list element being representative of a corresponding graphic item:

list element being representative of a corresponding graphic item;

building a banded display list representative of the plurality of bands of the image, wherein for each band of the plurality of

18 bands a set of templates is stored in the banded display list in

19 which each template points to a DLE in the display list buffer for 20 each corresponding graphic item that is spawned within the band:

each corresponding graphic item that is spawned within the band;

21 and

22 rendering each band by using the set of templates stored for 23 that band to access a corresponding set of DLEs from the display

24 list buffer.

- 9. (Original) The system of Claim 8, wherein the step of rendering comprises loading a set of templates for each of the plurality of bands into the on-chip memory.
- 1 10. (Original) The system of Claim 9, wherein the image 2 buffer is a band buffer located in the on-chip memory and wherein 3 the plurality of templates for each of the plurality of bands is 4 loaded into the on-chip memory together with the band buffer.

- 1 11. (Original) The system of Claim 8 being a printer, wherein
- 2 the means for displaying is a print engine connected to receive
- 3 each rendered band for printing.